



Integrated Device Technology, Inc.
6024 Silver Creek Valley Road, San Jose, CA - 95138

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: N1101-02 Product Affected: 841S04BGI 841S04BGILF 841S04BGIT 841S04BGILFT Date Effective: May 1, 2011	DATE: February 1, 2011	MEANS OF DISTINGUISHING CHANGED DEVICES: <input checked="" type="checkbox"/> Product Mark ICS841S04CGIL <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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Contact: Peter Jenkins Title: Marketing Phone #: (480) 763-2048 Fax #: (408) 763-2001 E-mail: Peter.Jenkins@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Available now
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DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input checked="" type="checkbox"/> Data Sheet <input checked="" type="checkbox"/> Other * Die revision	This notification is to advise our customers that IDT has made a die revision on device 841S04BGI. The die change will improve the production yield and reduce the overall power consumption of the device. The datasheet specifications will also be updated to reflect the changes. The orderable part number have also changed.
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RELIABILITY/QUALIFICATION SUMMARY:

There is no expected change to the product quality or reliability performance.

CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 90 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: _____	<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

CUSTOMER COMMENTS:

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : N1101-02

PCN Type: Product Line

Data Sheet Change: Yes

Details Of Change:

Changing orderable part number: From To

841S04BGI	841S04CGI
841S04BGIT	841S04CGIT
841S04BGILF	841S04CGILF
841S04BGILFT	841S04CGILFT

The die change will improve the production yield and reduce the overall power consumption of the device. The following tables reflect the updates on the 841S04CGI rev A of the datasheet.

Table 5A. POWER SUPPLY DC CHARACTERISTICS, $V_{DD_REF}=V_{DDA}=V_{DD_SRC}=3.3V\pm5\%$, $T_A=-40^{\circ}C$ TO $85^{\circ}C$

Sym	Parameter	Test Conditions	FROM			TO			Unit
			Min	Typical	Max	Min	Typical	Max	
V_{DD_REF}	Core Supply Voltage		3.135	3.3	3.465	3.135	3.3	3.465	V
V_{DDA}	Analog Supply Voltage	-	$V_{DD_REF}-0.25$	3.3	V_{DD_REF}	$V_{DD}-0.21$	3.3	V_{DD}	V
V_{DD_SRC}	Core/SRC Supply Voltage	-	3.135	3.3	3.465	-	-	-	V
I_{DD_REF}	Crystal Supply Current	-	-	-	8	-	-	-	mA
I_{DD_SRC}	Power Supply Current	-	-	-	160	-	-	80	mA
I_{DD}	Analog Supply Current	-	-	-	25	-	-	21	mA

Table 5B. LVCMOS/LVTTL DC CHARACTERISTICS, $V_{DD_REF}=V_{DDA}=V_{DD_SRC}=3.3V\pm5\%$, $T_A=-40^{\circ}C$ TO $85^{\circ}C$

Sym	Parameter	Test Conditions	FROM			TO			Unit
			Min	Typical	Max	Min	Typical	Max	
$V_{IHSMBUS}$	Input High Voltage		2.2	-	-	2.2	-	-	V
$V_{ILSMBUS}$	Input Low Voltage	-	-	-	1.0	-	-	1.0	V
I_{IH}	Input High Current	$V_{DD}=V_{IN}=3.465V$	-	-	5	-	-	10	uA
I_{OH}	Output Current	-	-	14	-	-	-	-	uA
I_{OZ}	High Impedance Lkg Current	-	-10	-	10	-	-	-	uA

Table 6. AC CHARACTERISTICS, $V_{DD_REF}=V_{DDA}=V_{DD_SRC}=3.3V\pm5\%$, $T_A=-40^{\circ}C$ TO $85^{\circ}C$

Sym	Parameter	Test Conditions	FROM			TO			Unit
			Min	Typical	Max	Min	Typical	Max	
$t_{jit(per)}$	Period Jitter, RMS	-	-	-	3	-	2.24	3	ps
t_R/t_F	SRCT/SRCC Rise/Fall	-	175	-	700	150	-	700	ps
$\Delta tR/tF$	Rise/Fall Time Variation	$V_{DD}=V_{IN}=3.465V$	-	-	125	-	-	145	ps
V_{HIGH}	Voltage High	-	520	-	800	520	-	875	mV

Sample Availability:

Samples are now available for all affected devices.

Please contact your local IDT sales representative for your sample request.